

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Isao IWAGUCHI, et al.

Application No.:

Group Art Unit:

Filed: July 21, 2003

Examiner:

For: METHOD OF READING INFORMATION AND APPARATUS THEREFOR, METHOD OF ACQUIRING SIGNAL FOR USE WITH INFORMATION READING APPARATUS, METHOD OF PROCESSING BAND LIMITATION, METHOD OF EXTRACTING TIMING POINT AMPLITUDE AND METHOD OF PROCESSING SIGNAL THEREOF, READ SIGNAL PROCESSING UNIT, AND METHOD OF PROCESSING READ SIGNAL AND PROCESSING APPARATUS THEREOF

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:
 - 1a. ☒ Form PTO-1449.
 - 1b. ☒ Copies of IDS citations.
 - 1c. ☒ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
 - 1d. ☐ English language translation (complete or relevant portion(s)) attached to each non-English language publication.
 - 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
2. ☒ In accordance with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is

(Check appropriate Items 2a, 2b, 2c and/or 2d)

- 2a. ☒ satisfied because all non-English language publications were cited on the enclosed "English-language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP

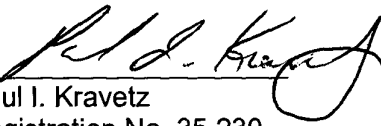
609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, pp. 600-100 to 600-101, Rev. 1, Feb. 2000.)

- 2b. ☐ set forth in the application.
 - 2c. ☐ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
 - 2d. ☐ enclosed as Attachment 1(e), hereto.
3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§1.97(g) and (h).

Respectfully submitted,

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1075.1233	APPLICATION NO.
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FIRST NAMED INVENTOR Isao IWAGUCHI, et al.	
		FILING DATE July 21, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	5,463,211	10/31/95	Arends et al.	235	462	5/7/93
	AB	5,061,843	10/29/91	Sato et al.	235	462	5/30/90
	AC	4,329,599	5/11/82	Gregorian et al.	307	520	5/29/80
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES	NO
	AG	HEI 6-348879	12/22/94	Japan			Abst	
	AH	HEI 4-362796	12/15/92	Japan			Abst	
	AI	HEI 2-44484	2/14/90	Japan			Abst	
	AJ	HEI 8-147402	6/7/96	Japan			Abst	
	AK	SHO 57- 501105	6/24/82	Japan			Corresponds to US 4,329,599	
	AL							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AM	
	AN	
	AO	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES	NO
	AG	HEI 57- / 132416	8/16/82	Japan			Abst	
	AH	2000-4122	1/7/00	Japan			Abst	
	AI	HEI 8-46555	2/16/96	Japan			Abst	
	AJ	2000-194840	7/14/00	Japan			Abst	
	AK							
	AL							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/00533

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G06K7/10, G06T1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ G06K7/10, G06T1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2002
Kokai Jitsuyo Shinan Koho 1971-2002 Jitsuyo Shinan Toroku Koho 1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 6-348879 A (Kunio HINATA), 22 December, 1994 (22.12.94), Full text; all drawings	1-3, 9, 11, 18, 44, 49, 50 4-8, 10,
Y	(Family: none)	12-15, 19-25, 28-43, 47, 48
A		16, 17, 26, 27, 45, 46, 51-66
Y	JP 4-362796 A (Tokyo Electric Co., Ltd.), 15 December, 1992 (15.12.92), Full text; all drawings (Family: none)	4-7, 10, 19-25, 28-43
Y	JP 2-44484 A (Eastman Kodak Co.), 14 February, 1990 (14.02.90), Full text; all drawings (Family: none)	8

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
12 April, 2002 (12.04.02)

Date of mailing of the international search report
30 April, 2002 (30.04.02)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/00533

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-147402 A (Nippondenso Co., Ltd.), 07 June, 1996 (07.06.96), Full text; all drawings (Family: none)	12,13,20-25, 28-43,47,48
Y	JP 57-501105 A (American Microsystems Inc., Hitachi, Ltd.), 24 June, 1982 (24.06.82), Full text; all drawings & DE 3172412 D & WO 81/3587 A1 & US 4329599 A1 & EP 55260 A & CA 1159910 A	14
Y	JP 57-132416 A (Victor Company Of Japan, Ltd.), 16 August, 1982 (16.08.82), Full text; all drawings (Family: none)	15,28
Y	JP 2000-4122 A (Icom Inc.), 07 January, 2000 (07.01.00), Full text; all drawings (Family: none)	32
Y	JP 8-46555 A (Japan Radio Co., Ltd.), 16 February, 1996 (16.02.96), Full text; all drawings (Family: none)	37
Y	JP 2000-194840 A (Victor Company Of Japan, Ltd.), 14 July, 2000 (14.07.00), Full text; all drawings (Family: none)	39,40